1410 North Hilton, Boise, ID 83706-1255, (208) 334-0502

Philip E. Batt, Governor

February 5, 1996

CERTIFIED MAIL #P 875 704 970

Linda Bowen Hewlett-Packard Company 11311 Chinden Boulevard Boise, Idaho 83714

Re: Hewlett-Packard Company (Boise) - #9506-072-2 Tier II Operating Permit (#001-00086)

Dear Ms. Bowen:

On June 12, 1995, the Division of Environmental Quality (DEQ) received Hewlett-Packard Company's (HP) Tier II Operating Permit (OP) application forms. On September 22, 1995, that application was determined complete. On November 22, 1995, a proposed Tier II OP was issued for public comment.

Based on review of your application, state and federal rules and regulations, and comments received, DEQ finds this project meets the provisions of IDAPA 16.01.01.400. (Rules for the Control of Air Pollution in Idaho). Therefore, please find enclosed your Tier II OP (#001-00086) for the emission sources that exist at the facility.

You, as well as any other entity, may have the right to appeal this final agency action pursuant to the Idaho Department of Health and Welfare Rules, Title 5, Chapter 3, "Rules Governing Contested Case Proceedings and Declaratory Rulings," by filing a petition with the Hearings Coordinator, Department of Health and Welfare, Administrative Procedures Section, 450 West State Street - 10th Floor, Boise, Idaho 83720-5450, within thirty-five (35) days of the date of this decision.

Please be advised that this operating permit is subject to permit application fees of five hundred dollars (\$500.00) in accordance with IDAPA 16.01.01.470. IDAPA 16.01.01.470 became effective on March 7, 1995. Information regarding the permit application fees will be sent to you shortly.

If you have any questions regarding the terms or conditions of the enclosed permit, please contact Brian R. Monson, Chief, Operating Permits Bureau, at (208) 373-0502.

Sincerely,

Orville D. Green

Owille D. Gran

Assistant Administrator Permits & Enforcement

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cc: J. Palmer, SWIRO

COF

S. Richards

Source File

P. Rayne

D. Sande

Printed on Recypied Papar

STATE OF IDAHO AIR POLLUTION OPERATING PERMIT  GENERAL INFORMATION	O 0 1 - 0 0 0 8 6  AQCR CLASS SIC  0 6 4 A 2 3 5 7 7				
1. Permittee Hewlett Packard (HP)					
2. <b>PROJECT</b> Tier II Operating Permit					
3. ADDRESS	TELEPHONE #	COUNTY			

3.	ADDRESS 11311 Chinden Boulevard	TELEPHONE # (208) 396-4070	COUNTY Ada
4.	CITY Boise	STATE Idaho	ZIP CODE 83714
5.	PERSON TO CONTACT Linda Bowen	TITLE Environmental Consultant	

6. EXACT PLANT LOCATION

11311 Chinden Boulevard, Boise, Idaho 83714

- 7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

  Development and Manufacture of Computer Peripherals Printers and Disk Drives
- 8. GENERAL CONDITIONS

This permit is issued according to the Rules for the Control of Air Pollution in Idaho, Section 16.01.01.400 and pertains only to emissions of air contaminants which are regulated by the State of Idaho and to the sources specifically allowed to be operated by this permit.

THIS PERMIT HAS BEEN GRANTED ON THE BASIS OF DESIGN INFORMATION PRESENTED WITH ITS APPLICATION CHANGES IN DESIGN OR EQUIPMENT, THAT RESULT IN ANY CHANGE IN THE NATURE OR AMOUNT OF EMISSIONS, MAY BE A MODIFICATION. MODIFICATIONS ARE SUBJECT TO DEPARTMENT REVIEW IN ACCORDANCE WITH Section 16.01.01.200 OF THE Rules for the Control of Air Pollution in Idaho.

Swill D. Gran

ASSISTANT ADMINISTRATOR

DIVISION OF ENVIRONMENTAL QUALITY

ISSUED February 5, 1996

Date

EXPIRES February 5, 2001

Date

Permittee AND LOCATION

PERNIT NUMBER

Hewlett Packard Company Tier II Operating Permit Boise, Idaho 001 - 00086

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

SOURCE

Fuel Burning Equipment (Boilers)

#### 1. SOURCE DESCRIPTION

### 1.1 Process Description

There are twelve (12) natural gas-fired boilers for the supply of the facility's hot water and building heat requirements.

#### 1.2 Control Description

1.2.1 Emissions from all twelve (12) boilers are uncontrolled.

### 1.3 Equipment Specifications

### 1.3.1 BL1 - Boiler #1

Manufacturer:
Model:
Maximum Heat Input:
Fuel:

Cleaver Brooks CB200-150 6.28 MMBtu/hr Natural Gas

# 1.3.2 BL1 - Boiler #2

Manufacturer:
Model:
Maximum Heat Input:
Fuel:

Cleaver Brooks CB200-100 3.35 MMBtu/hr Natural Gas

# 1.3.3 BL2 - Boiler #1

Manufacturer: Model: Maximum Heat Input: Fuel: Kewanee L3W-150-GO 6.28 MMBtu/hr Natural Gas

# 1.3.4 BL2 - Boiler #2

Manufacturer:
Model:
Maximum Heat Input
Fuel:

Kewanee L3W-100-GO 4.19 MMBtu/hr Natural Gas

### 1.3.5 BL2 - Boiler #3

Manufacturer:
Model:
Maximum Heat Input
Fuel:

Sellers #98716-1 1.26 MMBtu/hr Natural Gas

> ISSUED: February 5, 1996 . EXPIRES: February 5, 2001

Permittee AND LOCATION

PERMIT NUMBER

Hewlett Packard Company Tier II Operating Permit Boise, Idaho

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SOURCE

Fuel Burning Equipment (Boilers)

## 1.3.6 BL2 - Boiler #4

Manufacturer:

Model: Maximum Heat Input

Fuel:

1.3.7 BL5 - Boiler #1

Manufacturer:

Model: Maximum Heat Input:

Fuel:

1.3.8 BL5 - Boiler #2

Manufacturer:

Model: Maximum Heat Input:

Fuel:

1.3.9 BL5 - Boiler #3

Manufacturer:

Model: Maximum Heat Input:

Fuel:

1.3.10 BL6 - Boiler #1

Manufacturer:

Model: Maximum Heat Input

1.3.11 BL6 - Boiler #2

Manufacturer:

Model:

Maximum Heat Input:

Fuel:

1.3.12 BL6 - Boiler #3

Manufacturer

Model:

Maximum Heat Input:

Fuel:

Sellers #98716-2

1.26 MMBtu/hr

Natural Gas

Cleaver Brooks

CB200-150

6.28 MMBtu/hr

Natural Gas

Cleaver Brooks

CB200-300

12.55 MMBtu/hr

Natural Gas

Cleaver Brooks

CB200-40

1.67 MMBtu/hr

Natural Gas

Fuel:

SY-150-YGNIS 6.28 MMBtu/hr Natural Gas

Sellers

Sellers

SY-350-YGNIS

1.46 MMBtu/hr

Natural Gas

Kewanee

L3W-60-60 2.51 MMBtu/hr Natural Gas

Permittee AND LOCATION

PERMIT NUMBER

Hewlett Packard Company Tier II Operating Permit Boise, Idaho 001 - 00086

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

SOURCE

Fuel Burning Equipment (Boilers)

#### 2. EMISSION LIMITS

# 2.1 PM and PM-10 Emission Limits

Particulate matter (PM) and PM-10 emissions from each of the boiler stacks shall not exceed the grain loading emission limits as set in IDAPA 16.01.01.675 (Rules for the Control of Air Pollution in Idaho).

#### 2.2 <u>Visible Emission Limits</u>

Visible emissions from each boiler exhaust stack shall not exceed twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as per IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho) and as determined by using the Department's "Procedure's Manual for Air Pollution Control".

# 3. OPERATING REQUIREMENTS

#### 3.1 Fuel Specification

All boilers shall burn natural gas fuel exclusively.

ISSUED: February 5, 1996 EXPIRES: February 5, 2001

Permittee AND LOCATION

**Hewlett Packard Company** Tier II Operating Permit Boise, Idaho

PERMIT NUMBER

001 - 00086

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

SOURCE

Fuel Burning Equipment (Emergency Diesel Generators)

#### 1. SOURCE DESCRIPTION

#### Process Description

There are nine (9) diesel-fired emergency generating sets with various capacities. The generators will be operated only for maintenance and testing and during periods when emergency power is required. Two (2) of the generators are located at the facility's Bethel Court site. One (1) generator is located at the facility's 1500 Shoreline Drive.

#### 1.2 Control Description

Emissions from the diesel engine generators are uncontrolled.

#### 1.3 Equipment Specifications

The emergency diesel generators shall have the following specifications or Department approved equivalent:

#### 1.3.1 Diesel Emergency Generator A

Manufacturer:

Model:

Capacity:

Kohler 125R071

167 horse power (hp)

1.3.2 Diesel Emergency Generator B

Manufacturer:

Model:

Capacity:

Onan

300DFML27619N

466 hp

1.3.3 Diesel Emergency Generator C

Manufacturer:

Model:

Capacity:

Kohler/John Deere

230R0271

308 hp

1.3.4 Diesel Emergency Generator D

Manufacturer:

Model:

Capacity:

Cummins NTA-855-G

425 hp

1.3.5 Diesel Emergency Generator E

Manufacturer:

Model:

Capacity:

Kohler/John Deere

125R0271

148 hp

ISSUED: February 5, 1996 EXPIRES: February 5, 2001

Permittee AND LOCATION

PERMIT NUMBER

Hewlett Packard Company Tier II Operating Permit Boise, Idaho 001 - 00086

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

SOURCE

fuel Surning Equipment (Emergency Diesel Generators)

1.3.6 Diesel Emergency Generator F

Manufacturer: Cummins
Model: KTA38-G3
Capacity: 1340 hp

1.3.7 Diesel Emergency Generator G

Manufacturer: Unknown Model:

Capacity: 697 hp

1.3.8 Diesel Emergency Generator H

Manufacturer:

Model:
Capacity:
Onan
6CTA8.3-G
277 hp

1.3.9 Diesel Emergency Generator I

Manufacturer:

Model:
Capacity:

Onan
12.5JCL
20 hp

#### 2. EMISSION LIMITS

#### 2.1 Stack Emission Limits

- 2.1.1 PM-10 (as defined in IDAPA 16.01.01.006.71), sulfur dioxide ( $SO_2$ ), oxides of nitrogen ( $NO_X$ ), carbon monoxide (CO), and volatile organic compound (VOC) emissions from the exhaust stack of each diesel emergency generator shall not exceed the corresponding pound per hour, (lb/hr), or ton per year (T/yr) emission rate limits listed in Appendix A of this permit.
- 2.1.2 Particulate matter (PM) emissions from each of the generators A, B, C, D, E, F, G, H, and I stacks shall not exceed the pound per hour (lb/hr) values listed in Appendix A or the grain loading emission limits, as set in IDAPA 16.01.01.675 (Rules for the Control of Air Pollution in Idaho), which ever is more stringent.

#### 2.2 <u>Visible Emission Limits</u>

Visible emissions from the exhaust stack of each diesel emergency generator shall not exceed twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as per IDAPA 16.01.01.625 (Rules for the Control of Air Pollution in Idaho) and as determined by using the Department's "Procedure's Manual for Air Pollution Control".

ISSUED: February 5, 1996 EXPIRES: February 5, 2001

Permittee AND LOCATION

Hewlett Packard Company Tier II Operating Permit Boise, Idaho 001 - 00086

PERMIT NUMBER

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

SOURCE

Fuel Burning Equipment (Emergency Diesel Generators)

## 3. OPERATING REQUIREMENTS

#### 3.1 Hours of Operation

The total number of hours of operation per unit shall not exceed five hundred (500) hours per year in any calendar year.

### 3.2 Fuel Specification

All diesel emergency generators shall be fired exclusively by No. 2 diesel fuel. The sulfur content shall be less than five-tenths weight percent (0.5wt%) in accordance with IDAPA 16.01.01.728.02.

## 3.3 Maintenance and Operating Requirements

The Permittee shall maintain and operate all diesel emergency generators in accordance with manufacturer's recommendations.

#### 4. MONITORING AND RECORDKEEPING REQUIREMENTS

#### 4.1 Hours of Operation

The Permittee shall monitor and record the reason and the corresponding hours of operation of each diesel emergency generator. The information shall be maintained on-site in a log for a minimum period of two (2) years and shall be made available to Department representatives upon request.

ISSUED: February 5, 1996 EXPIRES: February 5, 2001

Permittee AND LOCATION

PERMIT NUMBER

Hewlett Packard Company Tier II Operating Permit Boise, Idaho 001 - 00086

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

SOURCE

Chemical Processing Facility

#### 1. SOURCE DESCRIPTION

#### 1.1 Process Description

HP uses organic liquid materials such as alcohol, fluxes, surfactants, and epoxies in the manufacturing process facility. Fluxes, which are primarily isopropanol, are used in the solder paste reflow process and in hand soldering operations. Isoproponal is also used to surface-clean finished product. Epoxies are used in the disk drive assembly process. Surfactants are added to deionized water to aid in parts cleanings.

Some of the water treatment chemicals used at the facility are Dearborn 547, Dearcide 723, Dearcide 737, and polyElpH 955. These chemicals are used for cooling water treatment and as a microbiocide and slimicide treatment. Hydrochloric acid, sulfuric acid, and sodium hydroxide are also used at the facility for water treatment system. Hydrochloric acid is processed at the water treatment facility in a closed container. Sodium hydroxide is used to maintain the pH of treated water at a certain level.

#### 1.2 Control Description

Emissions from the chemical processing facility are uncontrolled.

#### 2. EMISSION LIMITS

## 2.1 <u>VOC Limits</u>

Volatile Organic Compounds (VOC) emissions from the chemical processing facility shall not exceed 7.99 lb/hr or 35.00 T/yr, as per applicant's submittal.

#### 2.2 HCl Limits

Hydrochloric acid emissions from the chemical processing facility shall not exceed 0.12 lb/hr or 0.51 T/yr, as per applicant's submittal.

#### 3. OPERATING REQUIREMENTS

#### 3.1 Chemical Consumption

- 3.1.1 Annual chemical usage for the chemicals associated with VOC emissions shall not exceed 169.43 T/yr, as per applicant's submittal.
- 3.1.2 Annual Hydrochloric acid usage shall not exceed 25.67 T/yr, as per applicant submittal.

#### 3.2 HCl Evaporation Mininmization

All reasonable measures shall be taken to minimize the evaporation of HCl to the atmosphere, as per applicant's submittal.

### 4. MONITORING AND RECORDKEEPING REQUIREMENTS

4.1 The Permittee shall monitor and record the amount of chemicals purchased by the facility on a rolling annual basis. The most recent two (2) years compilation of data shall be kept on-site at all times and shall be made available to the Department representatives upon request.

Permittee AND LOCATION

PERMIT NUMBER

Hewlett Packard Company Tier II Operating Permit Boise, Idaho 001 - 00086

The Permittee is hereby allowed to operate the equipment described herein subject to the emission limits and monitoring and reporting requirements specified in this permit.

SOURCE

**Fugitive Sources** 

### 1. SOURCE DESCRIPTION

### 1.1 Process Description

Fugitive particulates at the facility are due to traffic activities on paved roads and on parking areas.

# 1.2 Control Description

Any fugitive emissions from the facility shall be reasonably controlled in accordance with IDAPA 16.01.01.650 (Rules for the Control of Air Pollution in Idaho).

# APPENDIX A

# HEWLETT-PACKARD COMPANY

# EMERGENCY GENERATORS

# HOURLY (1b/hr) AND ANNUAL (T/yr) POINT SOURCE EMISSION LIMITS

SOURCE	PM		PM-10		SO <sub>2</sub>		CO		NO <sub>x</sub>		voc	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/Yr	lb/hr	T/yr	lb/hr	T/Yr	lb/hr	T/yr
Generator A	0.37	0.09	0.37	0.09	0.37	0.09	1.11	0.28	5.16	1.29	0.41	0.11
Generator B	1.02	0.26	1.02	0.26	1.02	0.26	3.10	0.78	14.4	3.59	1.15	0.29
Generator C	0.68	0.17	0.68	0.17	0.68	0.17	2.06	0.51	9.52	2.38	0.76	0.19
Generator D	0.94	0.23	0.94	0.23	0.94	0.23	2.84	0.71	13.10	3.28	1.05	0.26
Generator E	0.33	0.08	0.33	0.08	0.33	0.08	0.99	0.25	4.57	1.14	0.37	0.09
Generator F	2.95	0.74	2.95	0.74	2.95	0.69	8.94	2.24	41.4	21.5	3.30	0.83
Generator G	1.54	0.38	1.54	0.38	1.43	0.36	4.65	1.16	10.4	5.38	1.72	0.43
Generator H	0.61	0.15	0.61	0.15	0.57	0.01	1.85	0.46	8.56	0.14	0.68	0.17
Generator I	0.04	0.01	0.04	0.01	0.04	0.01	0.13	0.03	0.62	0.14	0.05	0.01

ISSUED: February 5, 1996 EXPIRES: February 5, 2001

#### OPERATING PERMIT GENERAL PROVISIONS

- A. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code 39-101 et. seq.
- B. The Permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
- C. The Permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
  - To enter upon the Permittee's premises where an emission source is located, or in which any records are required to be kept under the terms and conditions of this permit; and
  - 2) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and to require stack emission testing (i.e., performance tests) in conformance with state approved or accepted EPA procedures when deemed appropriate by the Director.
- D. Except for data determined to be confidential under Section 39-111, Idaho Code, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Division of Environmental Quality.
- E. Nothing in this permit is intended to relieve or exempt the Permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
- F. In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the Permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Director.
- G. This permit shall be renewable on the expiration date, provided the Permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit such information within sixty (60) days after receipt of the Director's request shall cause the permit to be voided.
- H. The Director may require the Permittee to develop a list of Operation and Maintenance Procedures which must be approved by the Department. Such list of procedures shall become a part of this permit by reference, and the Permittee shall adhere to all of the operation and maintenance procedures contained therein.

I. The Permittee shall provide the Department a minimum of thirty (30) days notice prior to the scheduled date of any performance test required pursuant to this permit. Such testing must strictly adhere to the procedures outlined in the Department's Procedures Manual for Air Pollution Control, and will not be conducted on weekends or state holidays, unless the Permittee obtains prior Department approval. Testing procedures and specific time limitations may be modified by the Department by prior negotiation if conditions warrant adjustment.

The Permittee shall promptly notify the Department of any change in the testing schedule and shall provide at least five (5) working days notice prior to conducting any rescheduled test, unless the Department approves a shorter advanced notice period. Any records or data generated as a result of such performance tests shall be made available to the Department upon request.

The performance tests will be performed at the maximum production rate unless otherwise is specifically stated elsewhere in this Operating Permit. If this maximum rate is not achieved during testing, the allowable production rate will be limited to the production rate attained during testing.

J. The provisions of this permit are severable; and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.